RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/707,747A
Source: IFW0
Date Processed by STIC: 8/3/05

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RAW SEQUENCE LISTING DATE: 08/03/2005
PATENT APPLICATION: **US/10/707,747A** TIME: 15:05:14

Input Set : **D:\Sequence Listings.ST25.txt**
Output Set: **N:\CRF4\08032005\J707747A.raw**

3 <110> APPLICANT: University of South Florida
5 <120> TITLE OF INVENTION: DETECTION OF RED TIDE ORGANISMS BY NUCLEIC ACID AMPLIFICATION
7 <130> FILE REFERENCE: 1372.120PCR
C--> 9 **<140> CURRENT APPLICATION NUMBER: US/10/707,747A**
C--> 9 **<141> CURRENT FILING DATE: 2004-01-08**
9 <160> NUMBER OF SEQ ID NOS: 8
11 <170> SOFTWARE: PatentIn version 3.2
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 20
15 <212> TYPE: DNA
16 <213> ORGANISM: artificial sequence
18 <220> FEATURE:
19 <223> OTHER INFORMATION: Forward primer designed to amplify and detect the 91-bp region of
20 the rbcL gene of K. brevis.
22 <400> SEQUENCE: 1
23 tgaaacgtta ttgggtctgt 20
26 <210> SEQ ID NO: 2
27 <211> LENGTH: 22
28 <212> TYPE: DNA
29 <213> ORGANISM: artificial sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Reverse primer designed to amplify and detect the 91-bp region
33 of the rbcl gene specific K. brevis.
35 <400> SEQUENCE: 2
36 aggtacacac tttcgtaaac ta 22
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 19
41 <212> TYPE: DNA
42 <213> ORGANISM: artificial sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Fluorogenic probe designed to amplify and detect the 91-bp
46 region of the rbcl gene specific K. brevis.
48 <400> SEQUENCE: 3
49 ttaaccttag tctcgggta 19
52 <210> SEQ ID NO: 4
53 <211> LENGTH: 19
54 <212> TYPE: DNA
55 <213> ORGANISM: artificial sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Real Time NASBA forward primer for the marker region of rbcL gene

specific to K. brevis.

<400> SEQUENCE: 4

acgttattgg gtctgtgta 19

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Input Set : **D:\Sequence Listings.ST25.txt**
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<210> SEQ ID NO: 5
<211> LENGTH: 50
<212> TYPE: DNA
<213> ORGANISM: artificial sequence
<220> FEATURE:
<223> OTHER INFORMATION: Reverse primer for real time NASBA to dtect the marker region of the rcbL gene specific to K. brevis.
<400> SEQUENCE: 5
aattctaata cgactcacta tagggagaag gtacacactt tcgtaaacta 50

<210> SEQ ID NO: 6
<211> LENGTH: 33
<212> TYPE: DNA
<213> ORGANISM: artificial sequence
<220> FEATURE:
<223> OTHER INFORMATION: Molecular beacon used for real time NASBA assay.
<400> SEQUENCE: 6
cgatcgctta gtctcgggtt atttttcga tcg 33

<210> SEQ ID NO: 7
<211> LENGTH: 19
<212> TYPE: DNA
<213> ORGANISM: artificial sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer set was designed with sequence data from Karenia mikimotoi (GenBank accession no. ABO34635) by modifying existing chromophyte rbcL primers in order to amplify a 554-bp region (approximately one-third) of Karenia's rbcL gene (forward
<400> SEQUENCE: 7
atgatgaraa yattaactc 19

<210> SEQ ID NO: 8
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: artificial sequence
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<223> OTHER INFORMATION: PCR primer set was designed with sequence data from Karenia mikimotoi (GenBank accession no. ABO34635) by modifying existing chromophyte rbcL primers in order to amplify a 554-bp region (approximately one-third) of Karenia's rbcL gene (reverse
<400> SEQUENCE: 8
atttgtcccg cattgattcc t 21

VERIFICATION SUMMARY DATE: 08/03/2005
PATENT APPLICATION: **US/10/707,747A** TIME: 15:05:15

Input Set : **D:\Sequence Listings.ST25.txt**
Output Set: **N:\CRF4\08032005\J707747A.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date